 CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0318 New Off-Road Compression-Ignition Engines
---	-----------------	---

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2009	9DZXL06.5083	6.472	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Exhaust Gas Recirculation			Pump, Compressor, Generator Set, Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):


RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT	--	--	3.8	1.8	0.20	13	11	23

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 29th day of May 2009.


Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (lbs/hr) (for diesel only)	5.Fuel Rate: mm/stroke @ peak HP (lbs/hr) (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
9DZXL06.5083	D3CC129	TCD914L06 ^{129.9 kw}	174.1 @ 1800	105	62.9	n.a.	n.a.	n.a.	DDI, TC, CAC, EGR
9DZXL06.5083	C3C1128	TCD914L06	171.9 @ 2150	92	65.9	650 @ 1600	103	54.9	DDI, TC, CAC, EGR
9DZXL06.5083	C3C1114	TCD914L06	153.8 @ 1800	91	54.5	635 @ 1600	99	52.8	DDI, TC, CAC, EGR
9DZXL06.5083	C3CH119B	TCD914L06	160.3 @ 2300	82	62.8	640 @ 1600	96	51.1	DDI, TC, CAC, EGR
9DZXL06.5083	C3CH129B	TCD914L06	174.1 @ 2300	90	68.9	640 @ 1600	100	53.3	DDI, TC, CAC, EGR
9DZXL06.5083	C3C1124B	TCD914L06	166.9 @ 2150	88	63.0	625 @ 1600	100	53.3	DDI, TC, CAC, EGR
9DZXL06.5083	C3C1119C	TCD914L06	159.5 @ 2000	88	58.6	615 @ 1600	96	51.1	DDI, TC, CAC, EGR
9DZXL06.5083	C3C1109B	TCD914L06 ^{109 kw}	146.1 @ 1800	88	58.6	615 @ 1600	96	51.1	DDI, TC, CAC, EGR

Attachment P. 1 of 1

U-R-013-0318